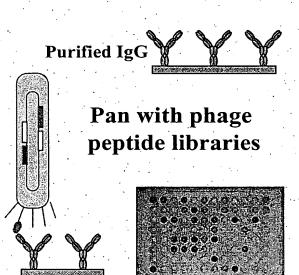
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(Sheet -1- of 14)
Title: METHODS FOR PRODUCING POLYPEPTIDE-TAGGED COLLECTIONS AND CAPTURE SYSTEMS CONTAINING THE TAGGED POLYPEPTIDES

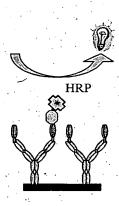
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Hybridomas from non-immunized mice







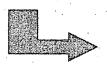


Figure 1A

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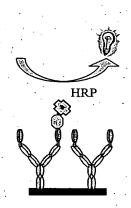
Start with | look for



Immunize mice with designed tags

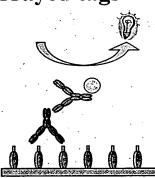


Screen with arrayed tags



Functional screen of tagged molecule





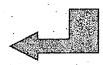


Figure 1B

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Sorting by pools

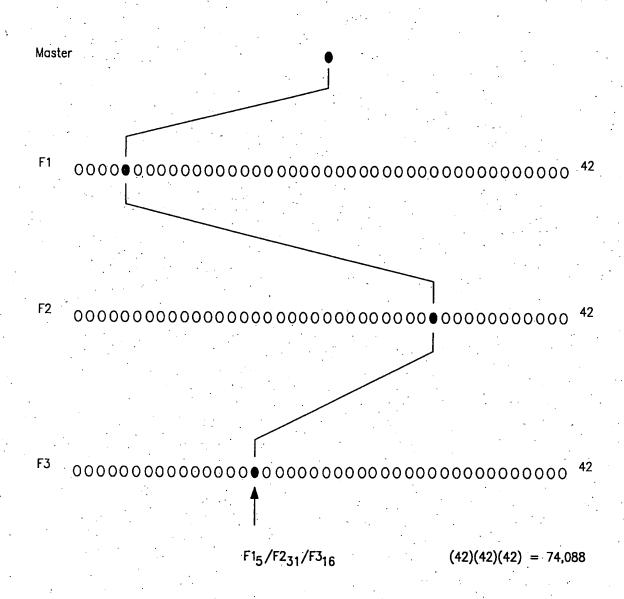


Figure 2

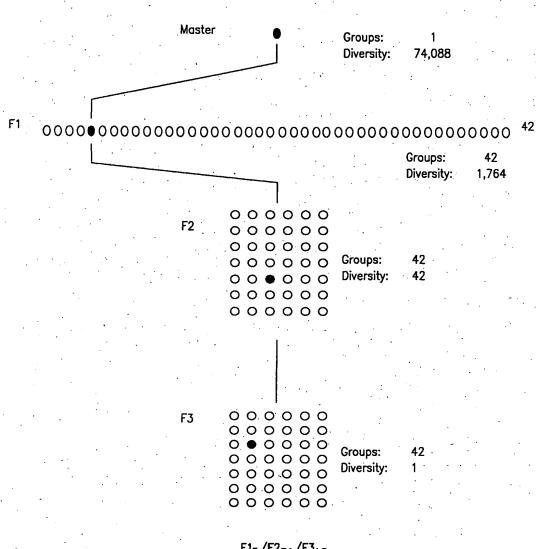
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Title: METHODS FOR PRODUCING POLYPEPTIDE-TAGGED COLLECTIONS AND CAPTURE SYSTEMS CONTAINING THE TAGGED POLYPEPTIDES

Applicants: Ault-Riche et al.

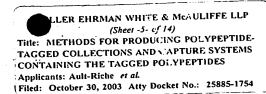
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Sorting by pools: Decreasing pool diversities



F15/F231/F316

Figure 3



Sorting by pools: Screening large diversity libraries

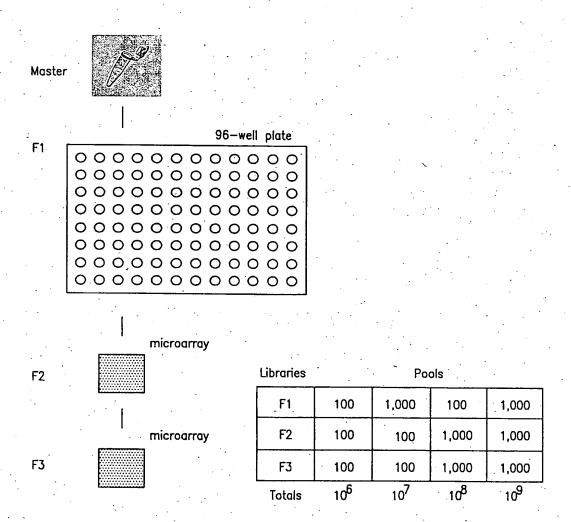


Figure 4

Applicants: Ault-Riche et al. Filed: October 30, 2003 Atty Docket No.: 25885-1754 1,000,000 Spots over 62 Canvases 16,000 Spots Capture antibody per Canvas Tagged Protein Epitope tag 1,000,000,000 1,000 250 Tagged Proteins per Spot Arrays Spots per Array **Total Display** Canvas

Figure 5

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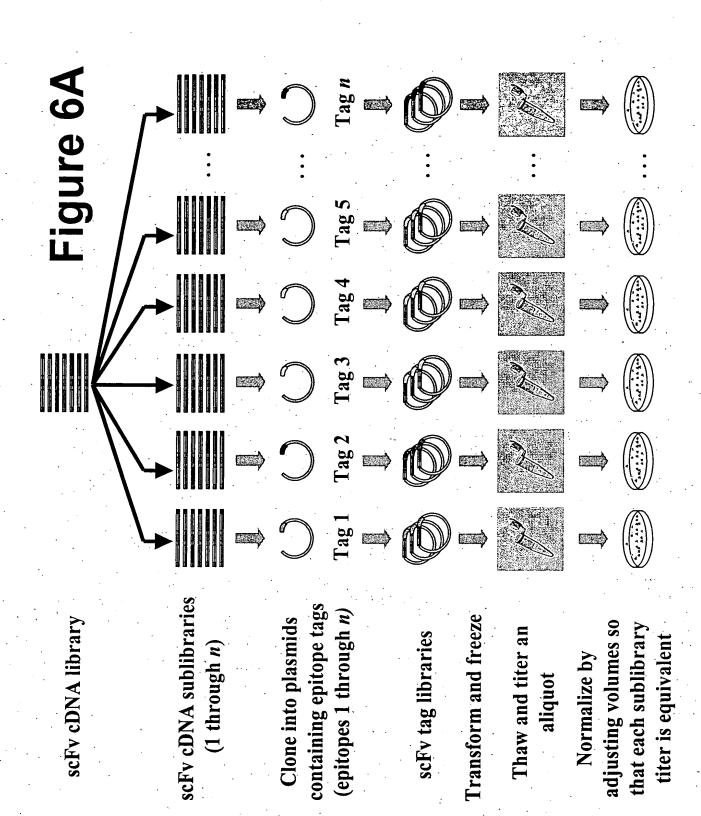


Figure 6B Lag n S Tag Tag 4 Tag 3 rag . Tag 1 tag libraries and apply to Express and purify scFv Split into q scFv array Mix normalized tag $[(n) \cdot (q) \cdot 1000 \text{ scFvs per}$ scFv tag libraries in Total scEv diversity Normalized libraries q arrays libraries E. coli spot

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Screening for Test Compounds or Conditions that Modulate Interactions

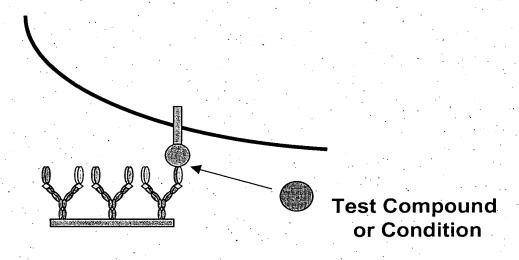


Figure 7A

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Screening for Test Compounds or Conditions that Modulate the Effect of Interactions

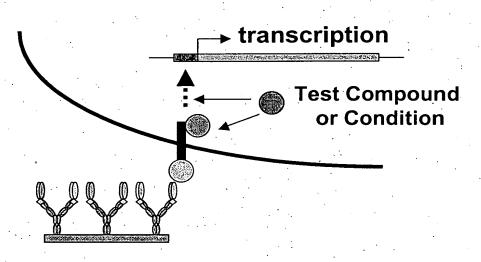


Figure 7B

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Title: METHODS FOR PRODUCING POLYPEPTIDE-TAGGED COLLECTIONS AND CAPTURE SYSTEMS CONTAINING THE TAGGED POLYPEPTIDES

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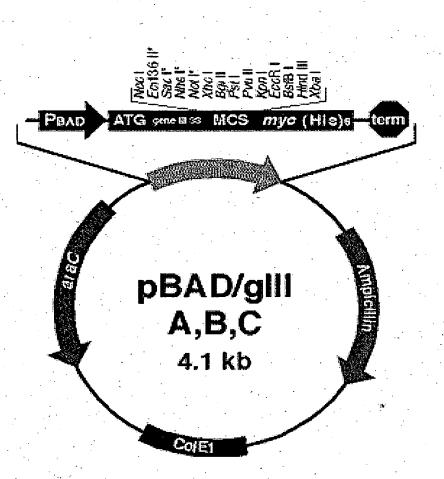


Figure 8

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Title: METHODS FOR PRODUCING POLYPEPTIDE-TAGGED COLLECTIONS AND CAPTURE SYSTEMS CONTAINING THE TAGGED POLYPEPTIDES

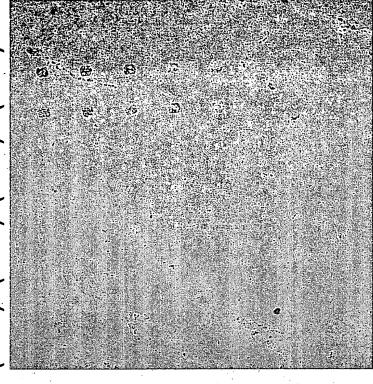
Applicants: Ault-Riche et al. Filed: October 30, 2003 Atty Docket No.: 25885-1754

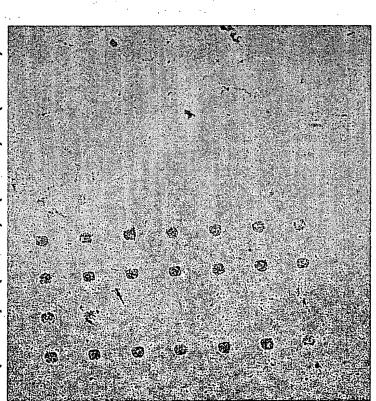
B Cells (38C13)

S1C5 HFN Anti-TCR (scFv) (scFv) (mAb) (mAb)



T Cells (C6VL)





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38C13 38C13 **Cell Extract** Receptor

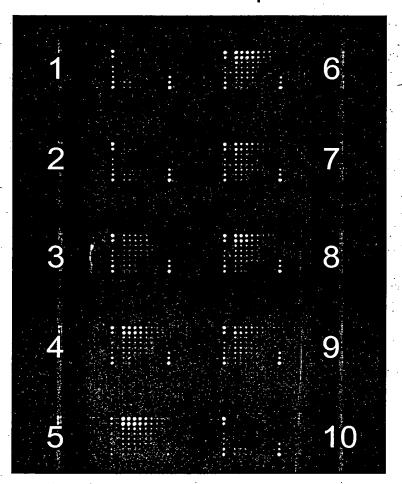


Figure 10

Figure,

applicable to Data subset

> Journal of mol Primary data:

recognition

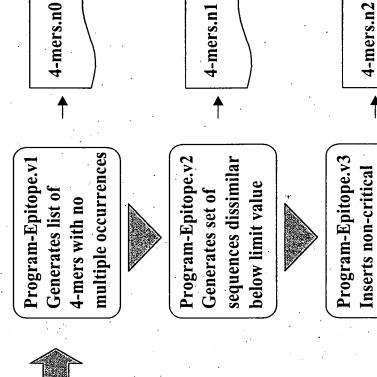
prediction

trial

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Title: METHODS FOR PRODUCING POLYPEPTIDETAGGED COLLECTIONS AND CAPTURE SYSTEMS CONTAINING THE TAGGED POLYPEPTIDES

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10/20 Amino acids 10 by 10 replace-

ability matrix

File name: Epitope

residues into one of

three formats